EXPRESS MAIL LABEL NO. EV669611768US DATE OF DEPOSIT: December 22, 2005

## PATENT COOPERATION TREATY

# **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

AG04-0	int's or agent's file reference	FOR FURTHER ACTION		ication of Transmittal of International Search Report T/ISA/220) as well as, where applicable, item 5		
International application No. PCT/US04/20321		International filing date (day/mo 23 June 2004 (23.06.2004)		(Earliest) Priority Date (day/month/year) 24 June 2003 (24.06.2003)		
Applica AGRIN	OMICS LLC					
This in accordi	ternational search report has been ng to Article 18. A copy is being	n prepared by this International Se g transmitted to the International I	earching Au Bureau.	thority and is transmitted to the applicant		
This in	ternational search report consists  It is also accompanie	of a total of sheets. d by a copy of each prior art docu	ment cited	in this report.		
1. Ba	language in which it was filed	, unless otherwise indicated under t	his item.	pasis of the international application in the		
the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).  b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:						
	contained in the internation	adable form	ı.			
֓֞֞֜֞֜֞֜֞֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֡֓֡֓֜֝֓֡֓֡֡֡֡֡֡֡֡֡֡	furnished subsequently to this Authority in written form.  furnished subsequently to this Authority in computer readable form.					
ן כֿ	s not go beyond the disclosure in the					
	3. Unity of invention is lacking (See Box II).					
2.						
4. V	4. With regard to the title,  the text is approved as submitted by the applicant.					
	<del>-</del>	d by this Authority to read as follo	ws:	•		
		•				
5. V	Vith regard to the abstract,					
	the text is approved as subr					
	the text has been established within one month from the	d, according to Rule 38.2(b), by the date of mailing of this internationa	is Authority I search rep	as it appears in Box III. The applicant may, ort, submit comments to this Authority.		
6. <u>T</u>						
اِ اِ	as suggested by the applica	nt.		None of the figures		
اِ اِ	because the applicant failed	l to suggest a figure.				
	because this figure better cl	haracterizes the invention.				

Form PCT/ISA/210 (first sheet) (July 1998)

### **INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US04/20321

Box 1 Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)					
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1. Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:					
Claim Nos.:     because they relate to parts of the international application that do not comply with the prescribed requireme an extent that no meaningful international search can be carried out, specifically:	nts to such				
Claim Nos.:     because they are dependent claims and are not drafted in accordance with the second and third sentences of	Rule 6.4(a).				
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)					
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet					
<ol> <li>As all required additional search fees were timely paid by the applicant, this international search report covers searchable claims.</li> <li>As all searchable claims could be searched without effort justifying an additional fee, this Authority did not payment of any additional fee.</li> <li>As only some of the required additional search fees were timely paid by the applicant, this international search covers only those claims for which fees were paid, specifically claims Nos.:</li> </ol>	invite				
4. No required additional search fees were timely paid by the applicant. Consequently, this international search restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-6	h r <del>e</del> port is				
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.					

### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/20321

A. CLASSIFICATION OF SUBJECT MATTER							
IPC(7) : C12N 5/04, 5/10, 15/82; AOIH 1/00							
US CL : 536/23.1, 24.5; 24.5; 800/286; 435/320, 419							
According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIELDS SEARCHED							
Minimum documentation searched (classification system followed by classification symbols)							
U.S. : 536/23.1, 24.5; 24.5; 800/286; 435/320, 419							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)							
	<del></del>						
appropriate, of the relevant passages	Relevant to claim No.						
romosome I of the plant Arabidopsis.	1-6						
	1-6						
	1						
	,						
	<u> </u>						
See patent family annex.							
"T" later document published after the inte	rnational filing date or priority						
date and not in conflict with the appli- principle or theory underlying the inve	ention but cited to understand the ention						
"X" document of particular relevance; the considered novel or cannot be considered.	claimed invention cannot be cred to involve an inventive step						
when the document is taken alone							
"Y" document of particular relevance; the	claimed invention cannot be						
with one or more other such documen							
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Date of mailing of the international gearch report							
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Authorized officer	7. 1						
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	by classification symbols)  e extent that such documents are included in the control of the relevant passages appropriate, of the relevant passages romosome I of the plant Arabidopsis.  See patent family annex.  The later document published after the introduced and not in conflict with the applia principle or theory underlying the inventional date and not in conflict with the applia principle or theory underlying the inventional deconsidered novel or cannot be considered novel or cannot be considered when the document is taken alone.  "Y" document of particular relevance; the considered to involve an inventive stee with one or more other such document obvious to a person skilled in the art document member of the same patent.  Date of mailing of the international gear.  Authorized officer.						

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INTERNATIONAL SEARCH REPORT	PCT/US04/20321			
BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS	LACKING			
This application contains the following inventions or groups of inventions which concept under PCT Rule 13.1. In order for all inventions to be examined, the a Group 1, claim(s) 1-6, drawn to a transgenic plant comprising a plant transform or is complementary to a sequence that encodes a DRO3 polypeptide comprising thereof, wherein transgenic plant has increased drought tolerance relative to co	appropriate additional examination fees must be paid.  mation vector comprising a nucleotide sequence that encodes ng the amino acid sequence of SEQ ID No. 2, or an ortholog untrol plants a plant part, a method of producing increased.			
drought tolerance by introducing into progenitor cells of a plant a vector comprising said sequence or an ortholog thereof, wherein said plant exhibits increased drought tolerance, and a plant obtained thereof.  Group II, claim(s) 7-9, drawn to a method of generating a plant having an increased drought tolerance phenotype comprising identifying a plant that has an allele in its DRO3 gene that results in increased drought tolerance phenotype, the method of claim 7 that employs				
candidate gene/QTL methodology, the said method that employs TILLING methodology.  The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I is drawn to a transgenic plant modified to exhibit increased tolerance to drought, and Group II is drawn to a method of generating a plant having increased drought tolerance phenotype.				

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